

FIG.1

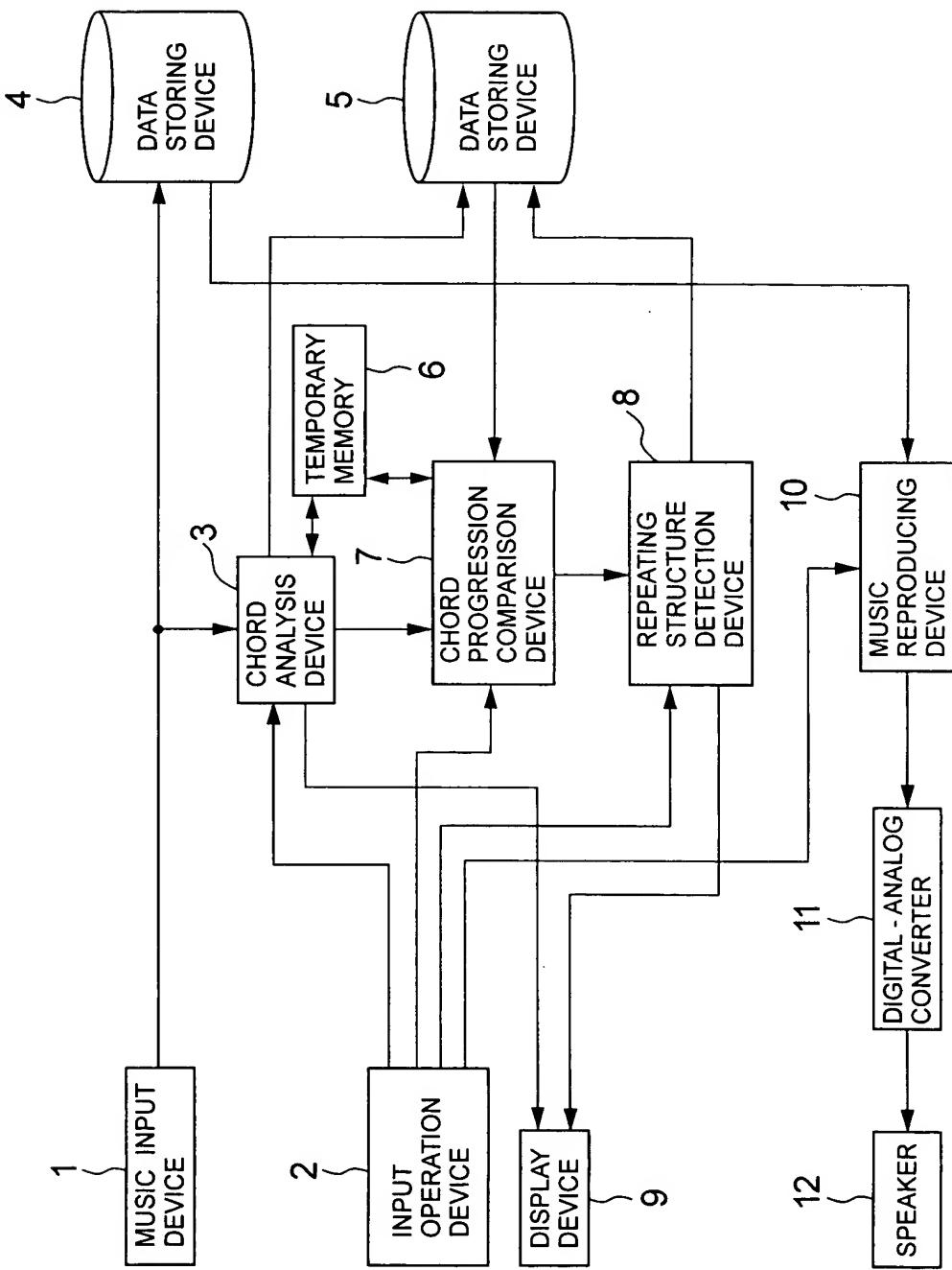


FIG.2

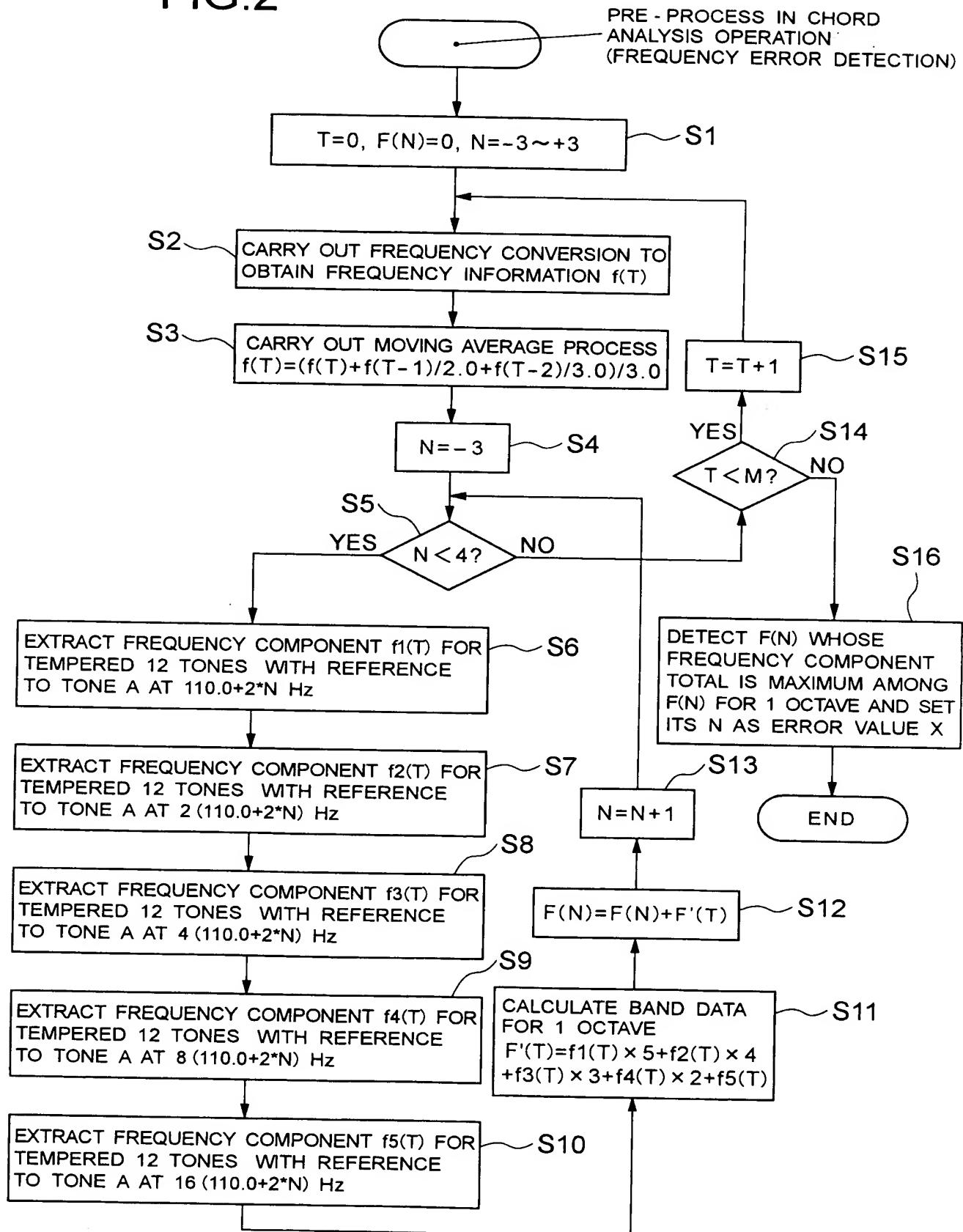


FIG.3

A	1.0
A#	$A \times 1.059163$
B	$A \times 1.124622$
C	$A \times 1.189207$
C #	$A \times 1.259921$
D	$A \times 1.334840$
D #	$A \times 1.414214$
E	$A \times 1.498307$
F	$A \times 1.587401$
F #	$A \times 1.681793$
G	$A \times 1.781797$
G #	$A \times 1.887749$
A	$A \times 2.0$

FIG.4

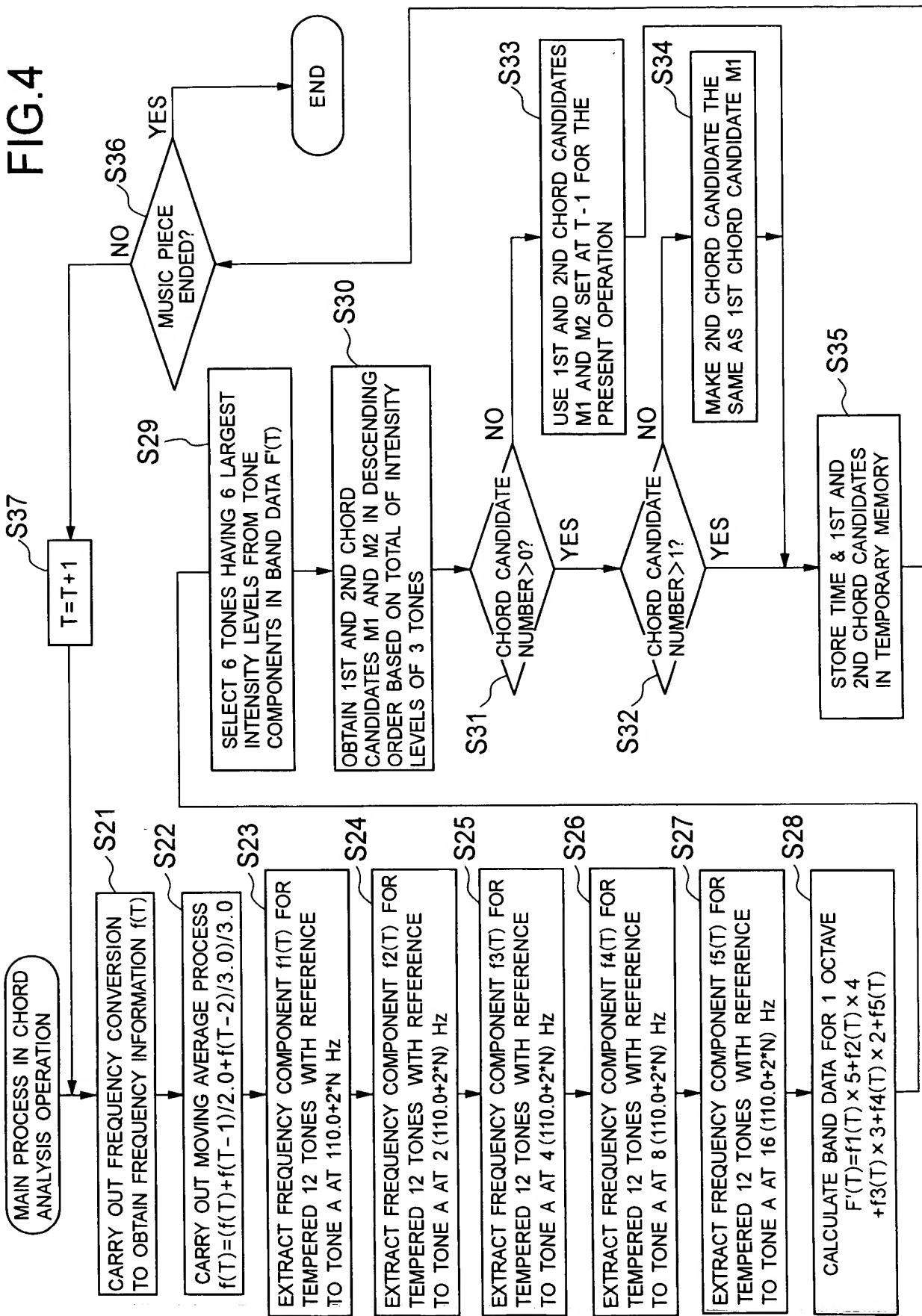


FIG.5

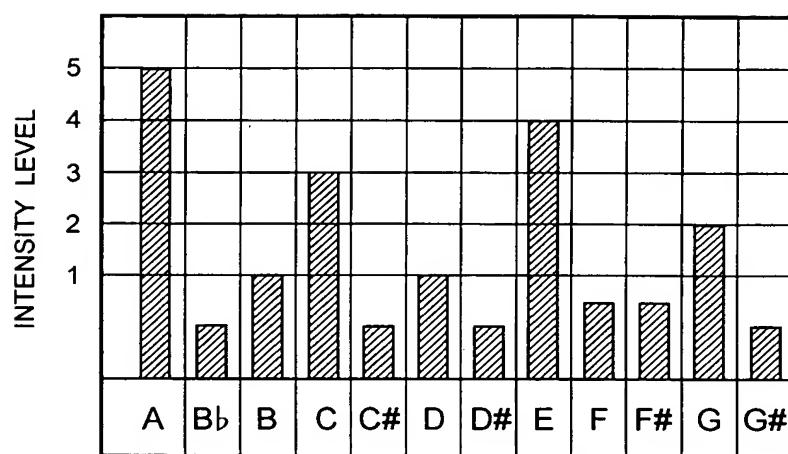


FIG.6

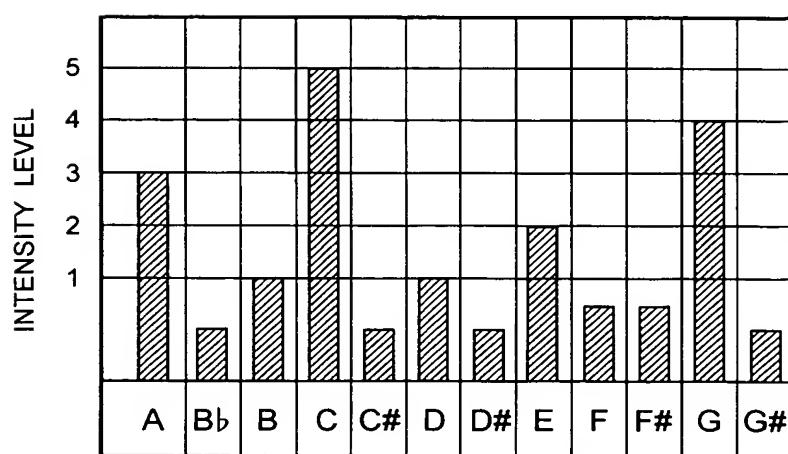


FIG.7

A+C+E+G(Am7)

→ A+C+E(Am) | C+E+G(C)

A+C+E b +F#(Adim7)

→ A+C+E b (Adim7 CANDIDATE) | C+E b +F#(Cdim7 CANDIDATE)

A+C#+E+G(A7)

→ A+C#+E(A) | A+C#+G(A7 CANDIDATE) | C#+E+G(C#dim7 CANDIDATE)

A+C+E+G+B(Am7.9)

→ A+C+E(Am) | C+E+G(C) | E+G+B(Em)

FIG.8

TIME (4 BYTES) 1ST CHORD CANDIDATE (1 BYTE) 2ND CHORD CANDIDATE (1 BYTE)
TIME (4 BYTES) 1ST CHORD CANDIDATE (1 BYTE) 2ND CHORD CANDIDATE (1 BYTE)
⋮
TIME (4 BYTES) 1ST CHORD CANDIDATE (1 BYTE) 2ND CHORD CANDIDATE (1 BYTE)

FIG.9A

FUNDAMENTAL TONE	
A	0 × 00
A#	0 × 01
B	0 × 02
C	0 × 03
C#	0 × 04
D	0 × 05
D#	0 × 06
E	0 × 07
F	0 × 08
F#	0 × 09
G	0 × 0A
G#	0 × 0B

FIG.9B

ATTRIBUTE	
MAJOR	0 × 00
MINOR	0 × 02
7TH CANDIDATE	0 × 01
DIM 7TH CANDIDATE	0 × 03

FIG.9C

ATTRIBUTE (LOWER 4 BITS) + FUNDAMENTAL TONE (LOWER 4 BITS)

FIG.10

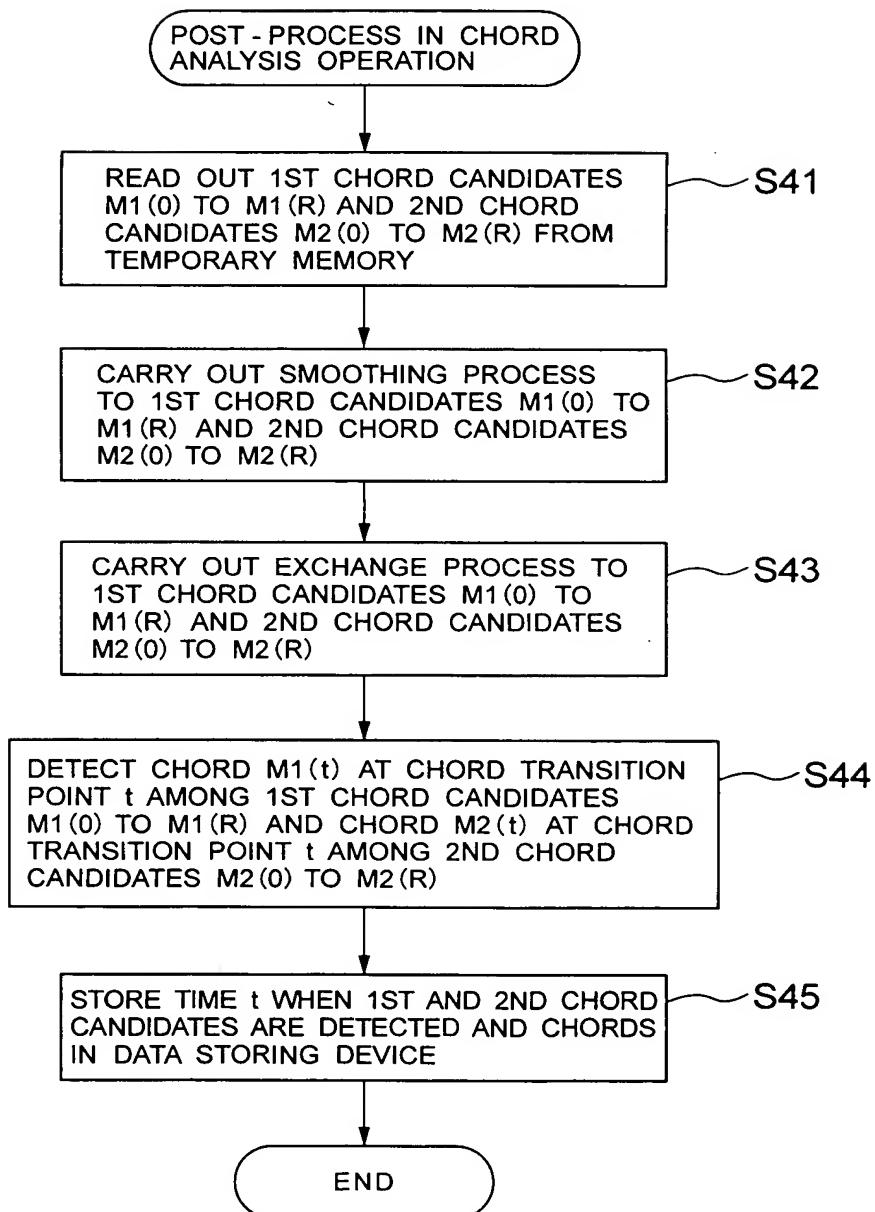


FIG.11

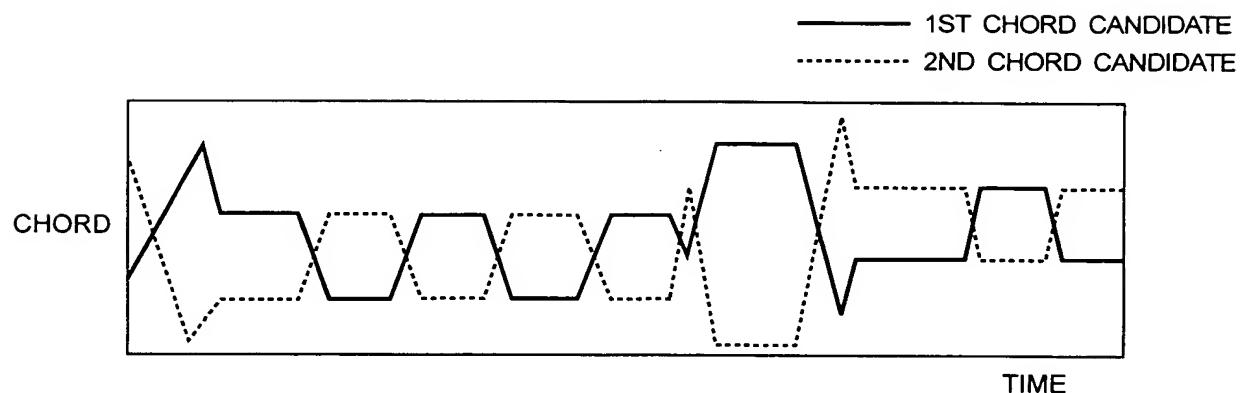


FIG.12

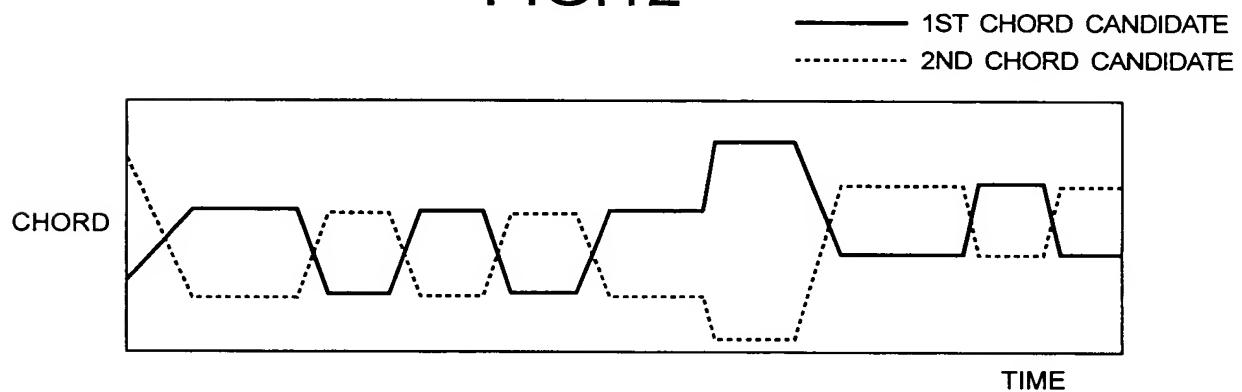
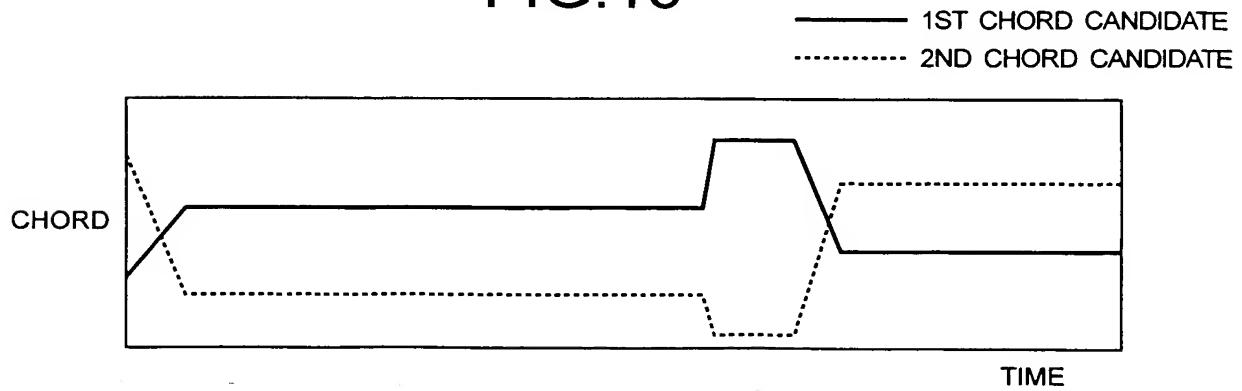


FIG.13



**REPLACEMENT
SHEET**

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— 1ST CHORD CANDIDATE
- - - - - 2ND CHORD CANDIDATE

FIG.14A

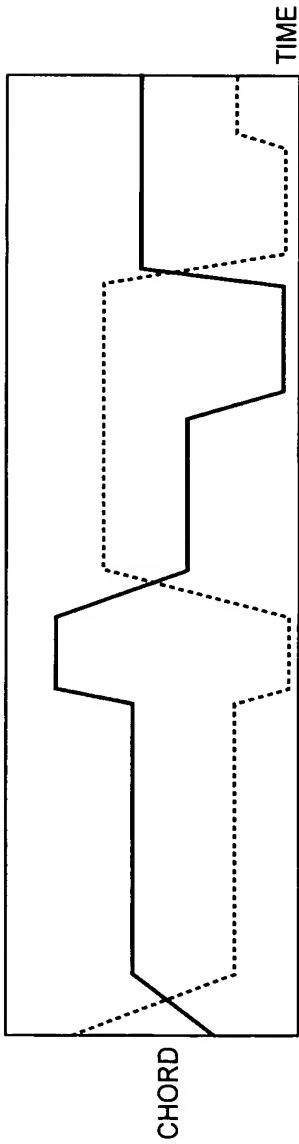


FIG.14B

TRANSITION OF 1ST CHORD CANDIDATE	F 0x08 ↓TIME (T1(0))	G 0x0A T1(1)	D 0x05 T1(2)	B♭ 0x01 T1(3)	F 0x08 T1(4)
TRANSITION OF 2ND CHORD CANDIDATE	F 0x03 ↓TIME (T2(0))	B♭ 0x01 T2(1)	F♯m 0x29 T2(2)	C 0x03 T2(3)	B♭ 0x01 T2(4)

FIG.14C

IDENTIFICATION INFORMATION FOR MUSIC PIECES (FILE NAMES, ETC.) (512 BYTES)

NUMBER OF 1ST CHORD CANDIDATES (4 BYTES)	T1(0) (4 BYTES) [0x08] T1(1) (4 BYTES) [0x0A] T1(2) (4 BYTES) [0x05]
T1(3) (4 BYTES) [0x01]	T1(4) (4 BYTES) [0x08]
NUMBER OF 2ND CHORD CANDIDATES (4 BYTES)	T2(0) (4 BYTES) [0x03] T2(1) (4 BYTES) [0x01] T2(2) (4 BYTES) [0x29]
T2(3) (4 BYTES) [0x01]	T2(4) (4 BYTES) [0x03]

FIG.14D

**REPLACEMENT
SHEET**

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FIG. 15

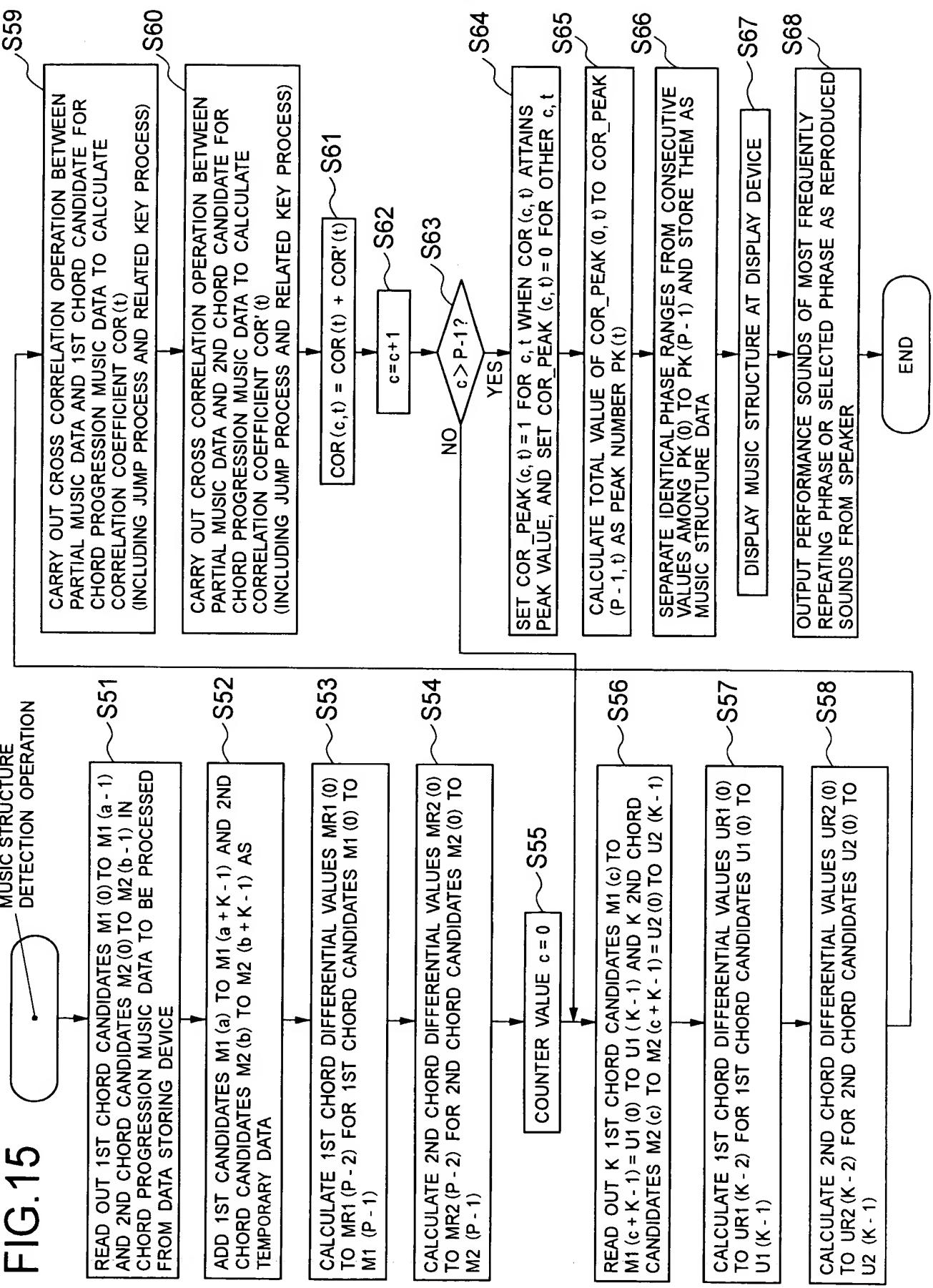


FIG.16

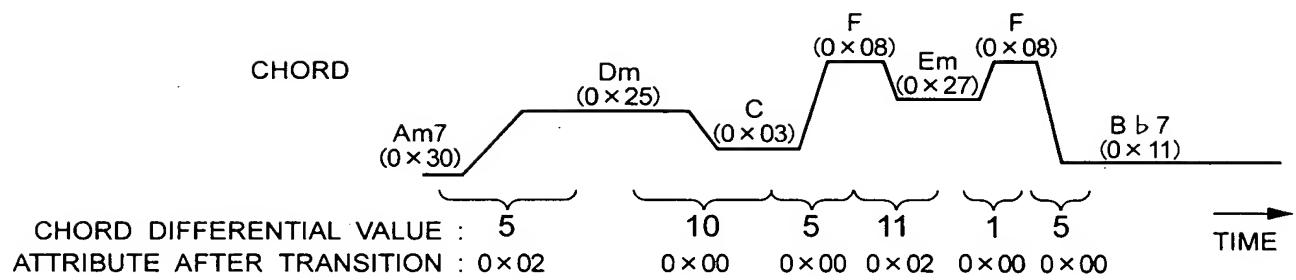


FIG. 17

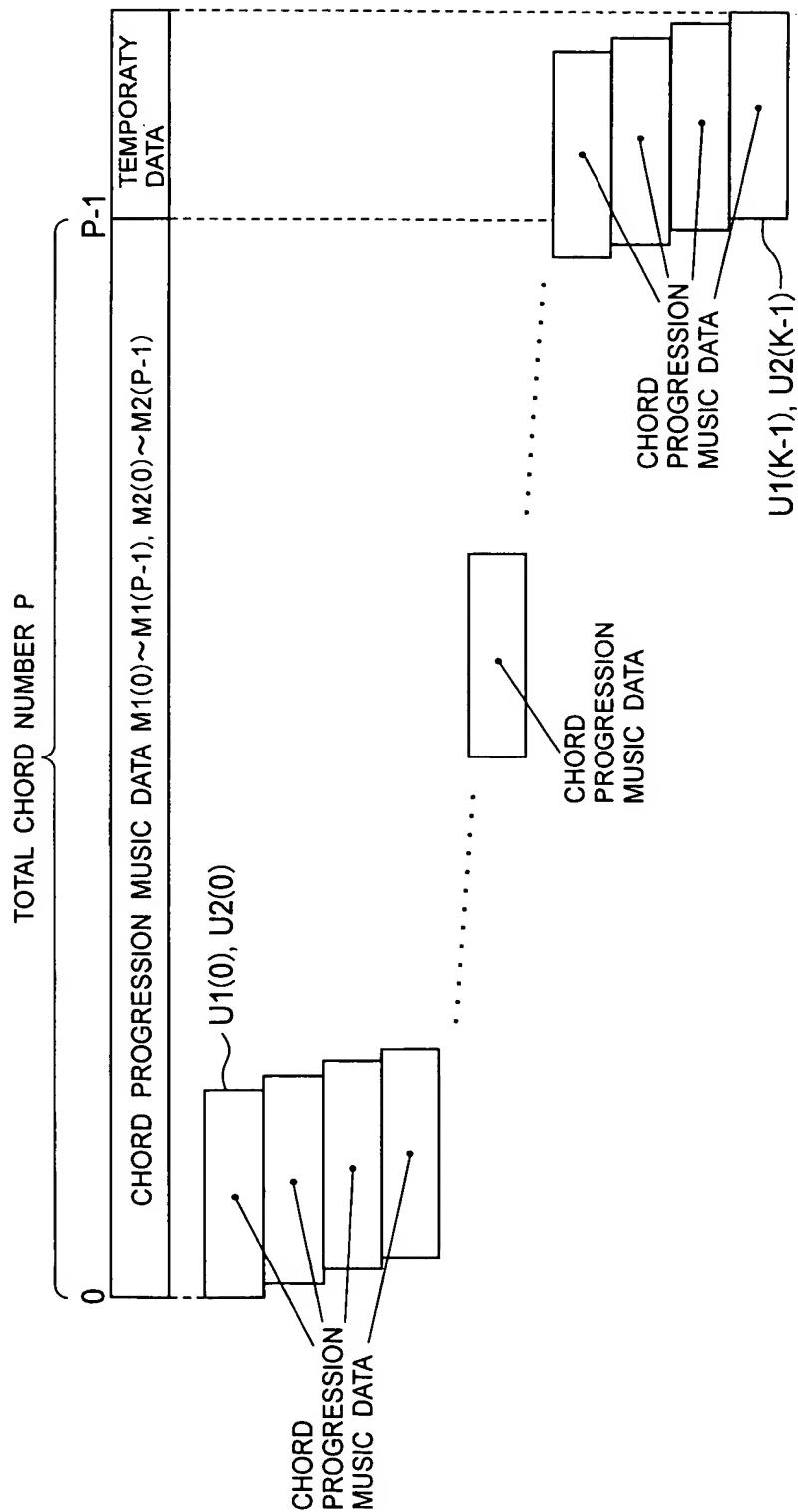
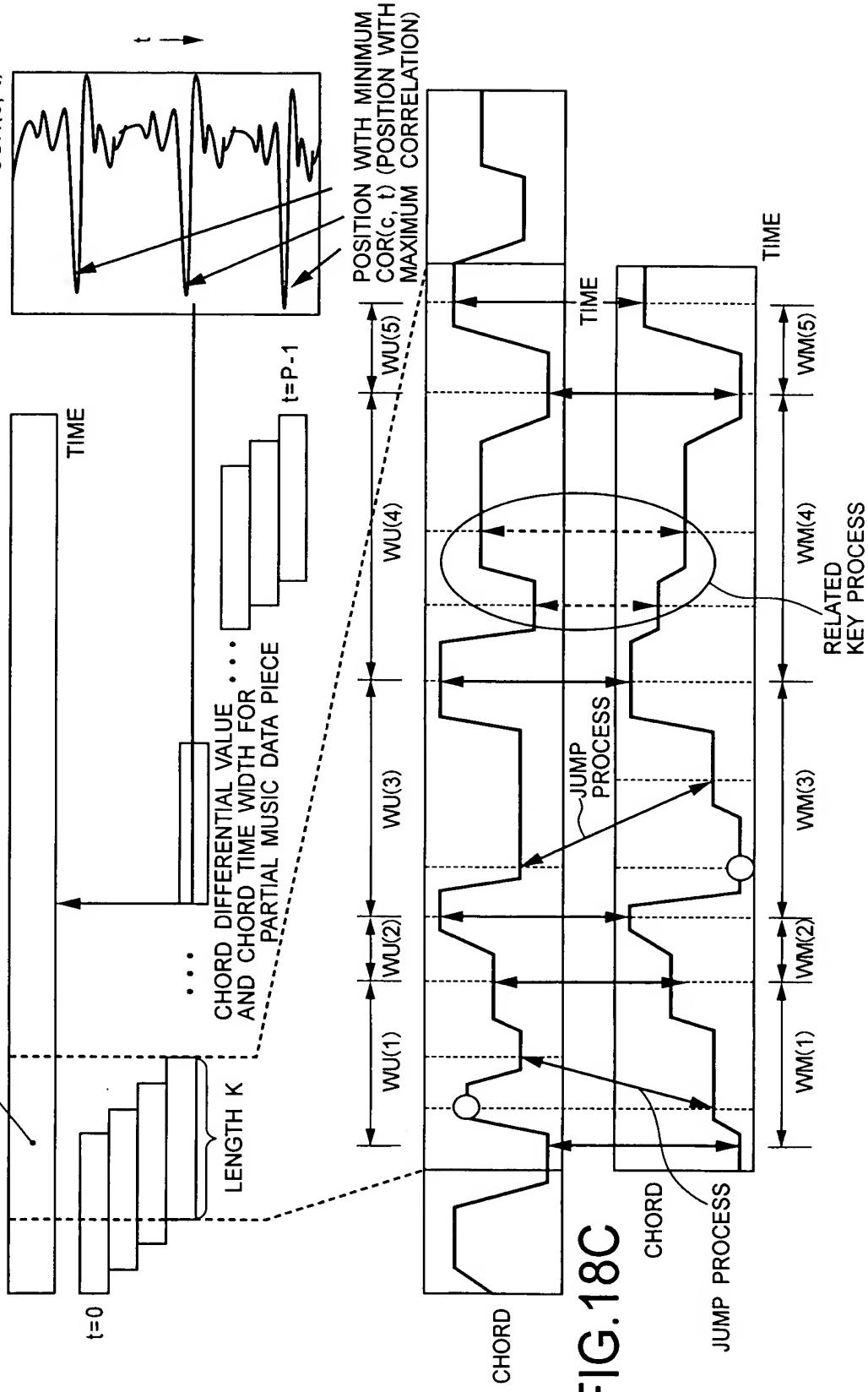
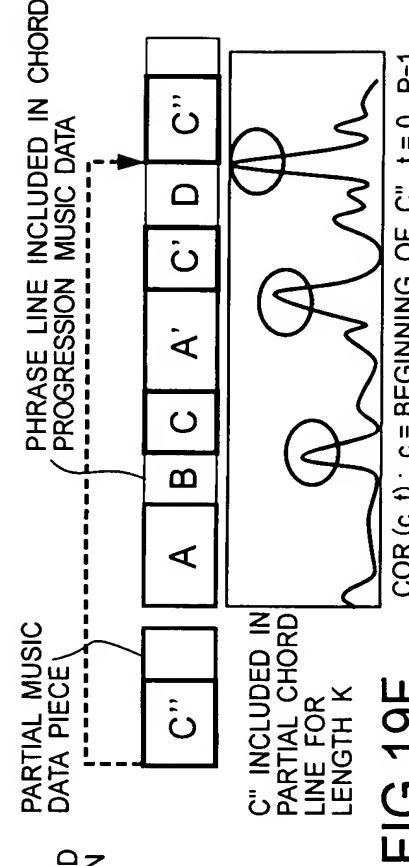
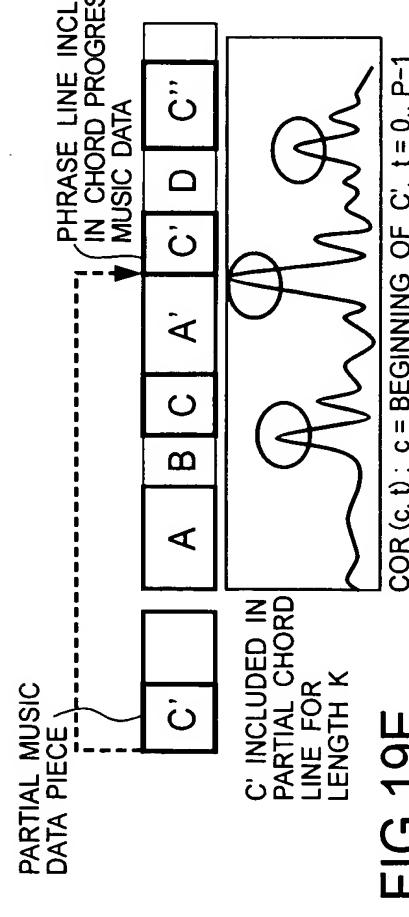
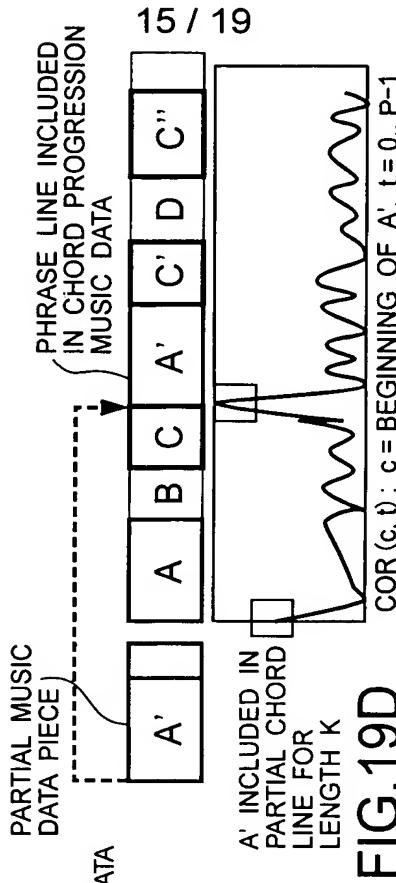
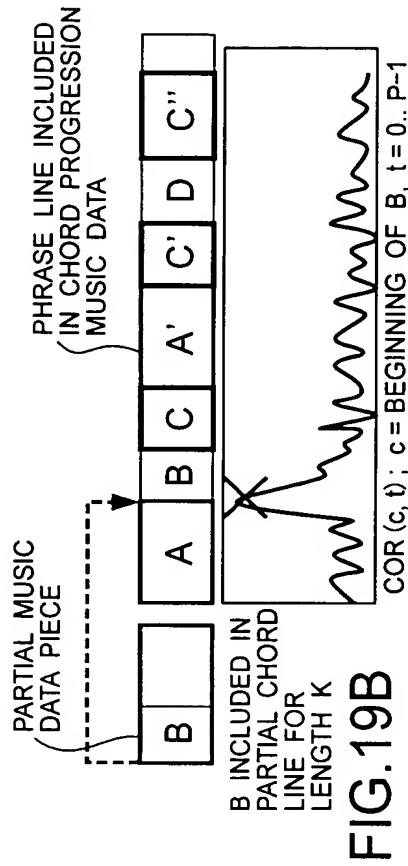
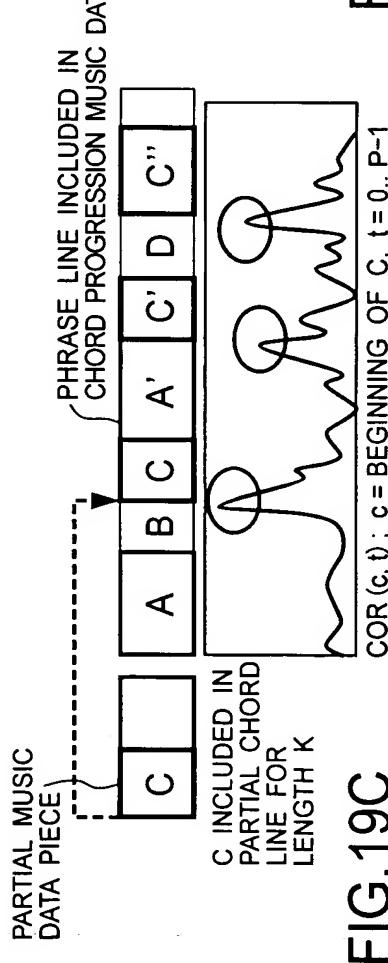
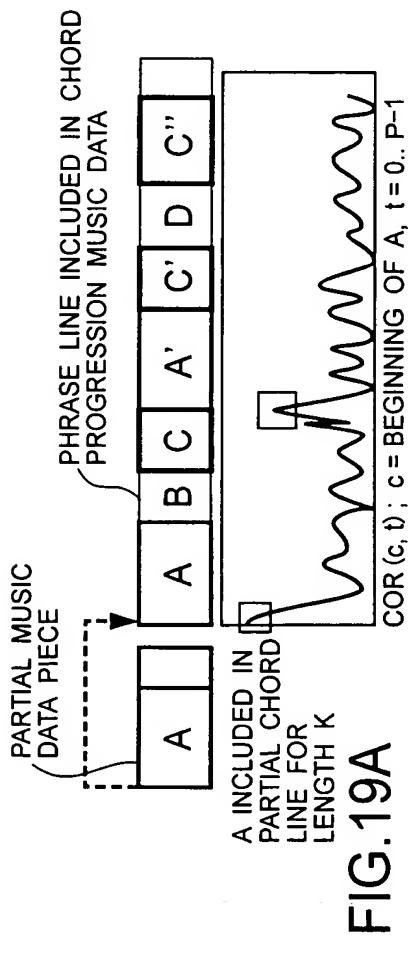


FIG. 18A CHORD DIFFERENTIAL VALUE FOR CHORD PROGRESSION
MUSIC DATA AND CHORD TIME WIDTH



REPLACEMENT
SHEET



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PHRASE LINE INCLUDED
IN CHORD
PROGRESSION
MUSIC DATA

PHRASE LINE INCLUDED
IN CHORD
PROGRESSION
MUSIC DATA

PHRASE LINE INCLUDED
IN CHORD PROGRESSION
MUSIC DATA

PHRASE LINE INCLUDED
IN CHORD
PROGRESSION
MUSIC DATA

PHRASE LINE INCLUDED
IN CHORD
PROGRESSION
MUSIC DATA

FIG.20

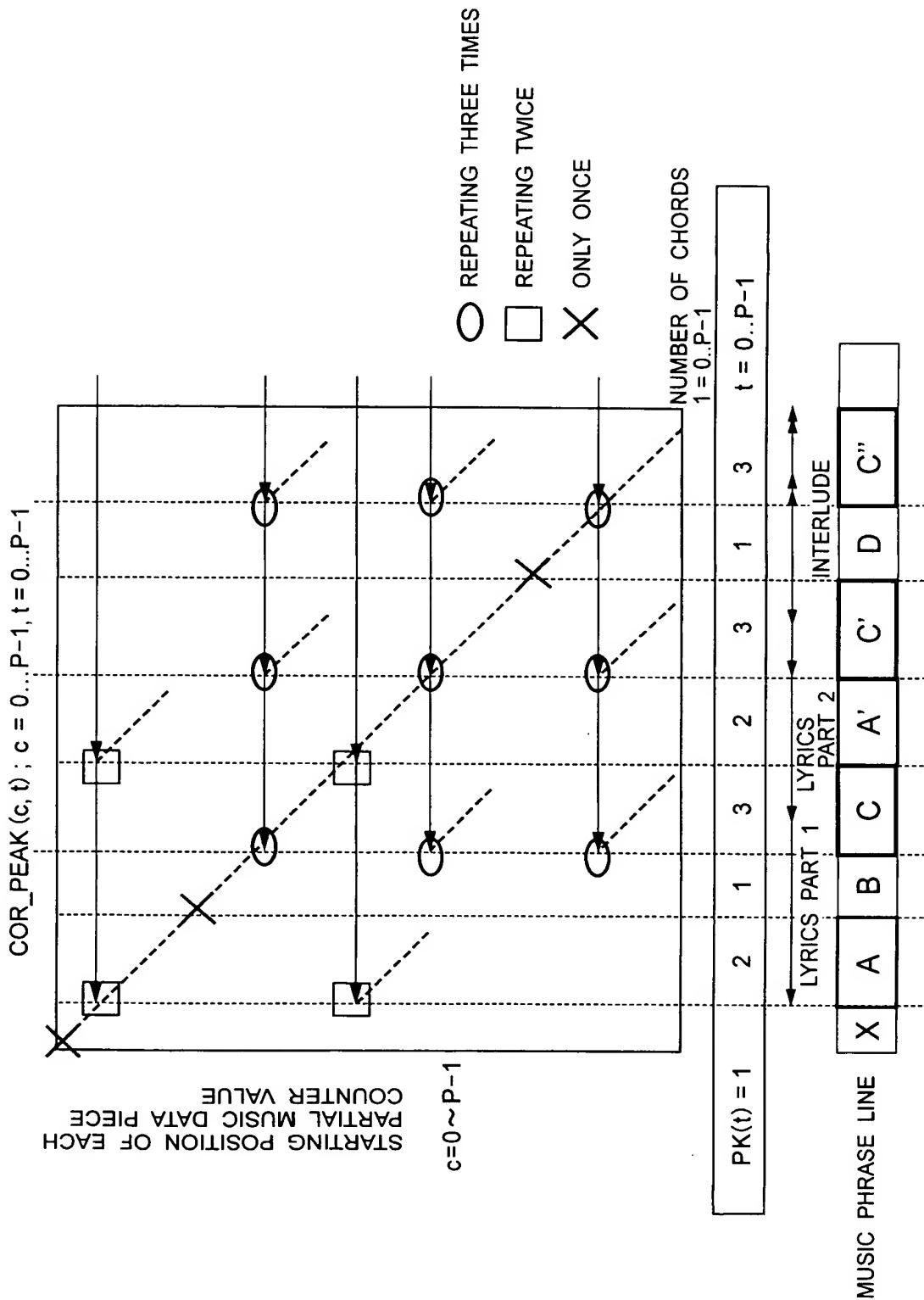


FIG.21

IDENTIFICATION INFORMATION FOR MUSIC PIECES (FILE NAMES, ETC.) (512 BYTES)

REPEATING PART 1: PHRASE REPEATING THREE TIMES

0×03 (RANK 3, 1 BYTE) 1ST PHRASE STARTING TIME INFORMATION (4 BYTES)
1ST PHRASE ENDING TIME INFORMATION (4 BYTES)

2ND PHRASE STARTING TIME INFORMATION (4 BYTES)
2ND PHRASE ENDING TIME INFORMATION (4 BYTES)

3RD PHRASE STARTING TIME INFORMATION (4 BYTES)
3RD PHRASE ENDING TIME INFORMATION (4 BYTES)

REPEATING PART 2: PHRASE REPEATING TWICE

0×02 (RANK 2, 1 BYTE) 1ST PHRASE STARTING TIME INFORMATION (4 BYTES)
1ST PHRASE ENDING TIME INFORMATION (4 BYTES)

2ND PHRASE STARTING TIME INFORMATION (4 BYTES)
2ND PHRASE ENDING TIME INFORMATION (4 BYTES)

REPEATING PART 3: PHRASE REPEATING TWICE

0×02 (RANK 2, 1 BYTE) 1ST PHRASE STARTING TIME INFORMATION (4 BYTES)
1ST PHRASE ENDING TIME INFORMATION (4 BYTES)

2ND PHRASE STARTING TIME INFORMATION (4 BYTES)
2ND PHRASE ENDING TIME INFORMATION (4 BYTES)

REPEATING PART 4: (ACTUALLY NOT REPEATING, APPEARING ONLY ONCE)

0×01 (RANK 2, 1 BYTE) PHRASE STARTING TIME FORMATION (4 BYTES)

PHRASE ENDING TIME INFORMATION (4 BYTES)

0×01 (RANK 2, 1 BYTE) PHRASE STARTING TIME FORMATION (4 BYTES)

PHRASE ENDING TIME INFORMATION (4 BYTES)

0×01 (RANK 2, 1 BYTE) PHRASE STARTING TIME FORMATION (4 BYTES)

PHRASE ENDING TIME INFORMATION (4 BYTES)

REPLACEMENT
SHEET

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FIG.22

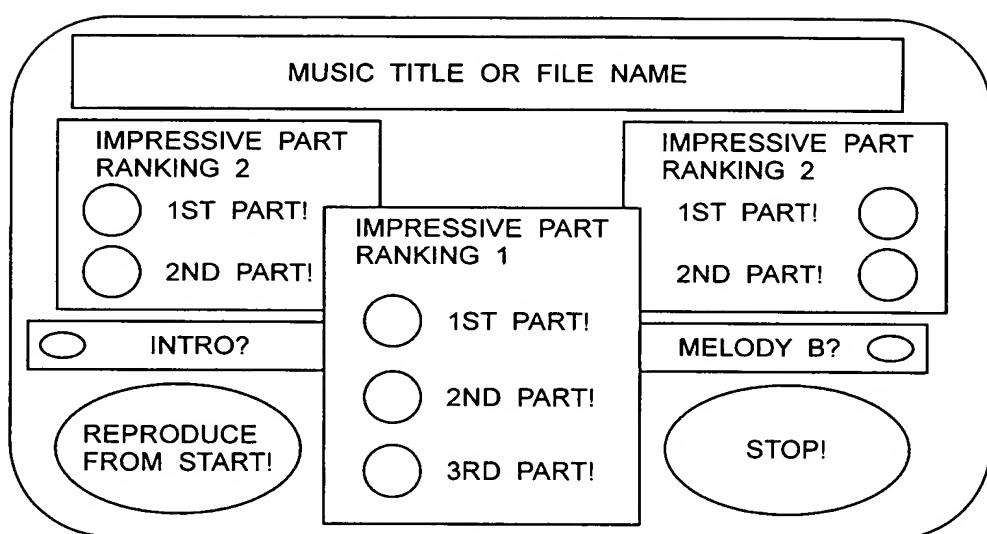


FIG.23

